



Type Test Report				Date of issue: 2015-03-16																															
Customer:				Serial No.: 3G1T07200000009133																															
Customer ref.:				Type: M1AA 160 MLA 6 Product Code: 3GAA163061-_DA																															
Rating:		<table border="1"> <thead> <tr> <th>V</th> <th>Hz</th> <th>kW</th> <th>r/min</th> <th>A</th> <th>cos φ</th> <th>Duty</th> </tr> </thead> <tbody> <tr> <td>690</td> <td>Y 50</td> <td>7.5</td> <td>960</td> <td>10.9</td> <td>0,75</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>7.5</td> <td>960</td> <td>18.9</td> <td>0,75</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>7.5</td> <td>1165</td> <td>15.9</td> <td>0.70</td> <td>S1</td> </tr> </tbody> </table>						V	Hz	kW	r/min	A	cos φ	Duty	690	Y 50	7.5	960	10.9	0,75	S1	400	D 50	7.5	960	18.9	0,75	S1	460	D 60	7.5	1165	15.9	0.70	S1
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3-Motor																																			
Insul.cl.F																																			
IP55																																			
Eff class IE1		50Hz : IE1-84.7(100%)-84.5(75%)-82.5(50%) 60Hz :																																	
Resistance		Ambient: 25 °C		Insulation resistance at 25 °C		Overload																													
Line				R > 2000 Mohm 1000 V		Current 150% 120s																													
U ₁ - V ₁		1,57500 Ω				Torque 160% 15s																													
U ₁ - W ₁		1,57700 Ω				Speed 120% 120s																													
V ₁ - W ₁		1,57800 Ω																																	
				High-voltage test winding 2400 V		60 s																													
Test	Torque [Nm]	Line U[V]	f[Hz]	Input I[A]	P1 [kW]	Output P2 [kW]	η[r/min]	cos φ	η [%]																										
No load test		400 D	50	8,14	0,42		1000	0,08																											
Locked rotor test		50 D	50	18,5	0,77		0	0,48																											
Thermal test (100% load)	75,7	400 D	50	17,90	8,94	7,62	961	0,74	82,81																										
Partial load points:																																			
~75% load	56,8	400 D	50	13,9	6,68	5,72	972	0,72	82,42																										
~50% load	37,9	400 D	50	10,95	4,60	3,81	980	0,62	81,00																										
~25% load	18,9	400 D	50	9,09	2,62	1,91	989	0,42	72,71																										
Temperature rise at rated load.		[°C]		[K]		Method		Measurement method																											
Stator winding :		68,0		3				1 Resistance																											
Frame :								2 Thermometer																											
Bearing D-end :								3 Thermocouples																											
Ambient Temperature :		25		3																															
Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.																																			
On behalf of customer																																			
On behalf of manufacturer		Date of test		2007-05-20																															

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